

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	205628	("co.sub.3" adj "o.sub.4") or ("fe.sub.3" adj "o.sub.4") or ("fe.sub.2" adj "o.sub.3") or NiO or ("V.sub.2" adj "O.sub.5") or ZnO or ("Cr.sub.2" adj "O.sub.3") or (Mn adj "O.sub.2") or CdS or (Au-"SiO.sub.2") or (Ag-"SiO.sub.2") or (Cu-"SiO.sub.2")	USPAT	OR	ON	2006/12/20 10:47
L2	169430	(record\$5 or "phase change") near5 (plural\$4 or many or multi\$5 or two or "2" or three or "3" or "4" or four or "5" or five or six or six)	USPAT	OR	ON	2006/12/20 12:50
L3	28968	I1 and I2	USPAT	OR	ON	2006/12/20 10:52
L4	252558	("super resolution" or masking or "RENS")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:53
L5	1579	I3 and I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:53
L6	25598635	I5 adn @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:58
L7	1579	I5 and I6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:56
L8	1541	I5 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 12:45
L9	37	I8 and GeSbTe	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:59

## EAST Search History

L10	211	l8 and "refractive index"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 12:46
L11	68243	(record\$5 or "phase change") near5 (plural\$4 or many or multi\$5)	USPAT	OR	ON	2006/12/20 12:51
L12	13712	l1 and l11	USPAT	OR	ON	2006/12/20 12:51
L13	850	l12 and l4	USPAT	OR	ON	2006/12/20 12:51
L14	835	l13 and @ad<"20040319"	USPAT	OR	ON	2006/12/20 13:08
L15	0	JP-267078-\$.did.	USPAT	OR	ON	2006/12/20 13:09
L16	0	JP-1994267078-\$.did.	USPAT	OR	ON	2006/12/20 13:09
L17	2	267078/1994	USPAT	OR	ON	2006/12/20 13:09
S1	1719	("430/270.13" or 369/94 or 428/64. 9 or 428/64.5 or 430/270.11).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 14:17

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S80	1794773	(two or S78 or three or S79 or "4" or four or five or "5" or "6" or six or "7" or seven or "8" or eight or "9" or nine or ten or "10") near5 (recording layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:20
S81	247484	S79 and S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:22
S82	8868	"photonic crystal" or "dielectric multilayer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:23
S83	1010	S82 and S81	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:23
S84	1597607	(low refractive index) near5 (high refractive index)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:24
S85	858	S83 and S84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:24
S86	1248624	S84 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:25
S87	605	S85 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 14:25

## EAST Search History

S88	104396	(optical or laser or information) near5 (film or layer)	USPAT	OR	OFF	2006/12/15 15:08
S89	10843	((multilayer near3 reflect\$5)or interference) near5 (film or layer)	USPAT	OR	OFF	2006/12/15 15:17
S90	30727	((multilayer near3 reflect\$5)or interference) near5 (film or layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 15:17
S91	4897	S79 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 15:18
S92	139107	SiO2 or TiO2 or "Zns-Sio2" or Si3N4 or Ta2O5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 15:20
S93	240	S91 and S92	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 15:21
S94	191	S93 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:10
S95	597752	(optical or laser or information) near5 (disk or disc or media or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:11
S96	6522	"photonic crystal" or "multiple reflect\$4" or "dielectric multi-layer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:12

## EAST Search History

S97	13461	("super resolution" or resolut\$5) near3 (film or layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:13
S98	597780	S95 S96 and S97	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:13
S99	72	S95 and S96 and S97	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:14
S10 0	25585311	S99 @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/15 17:14
S10 1	44	S99 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 10:15
S10 2	598092	(optical or laser or information) near5 (disk or disc or media or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 11:43
S10 3	10608	S102 and yamamoto	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 11:55
S10 4	41468	(multi or multiple or many) near3 reflect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 11:44

## EAST Search History

S10 5	168	S103 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 11:45
S10 6	146	S105 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 11:45
S10 7	85	S102 and (yamamoto adj Hiroki)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 12:18
S10 8	2	ep-1094454-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 12:22
S10 9	0	JP-2001084643	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 12:22
S11 0	2	JP-2001084643-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:13
S11 1	2140	428/64.5 or 430/270.13 or 369/275. 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:17
S11 2	598092	(optical or information or laser) near5 (disk or disc or media or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:17

## EAST Search History

S11 3	2040	S111 and S112	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:18
S11 4	26546	(phase change) same ("super resolution" or masking or "RENS")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/20 10:52
S11 5	97	S113 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:19
S11 6	27351	("multi layer" near6 interfer\$5) or (dielectric near6 reflect\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:34
S11 7	32	S115 and S116	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:23
S11 8	27351	((("multi-layer" OR "multi layer") near6 interfer\$5) or (dielectric near6 reflect\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:34
S11 9	32	S115 and S118	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:04
S12 0	135	S114 and S112 and S118	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:35

## EAST Search History

S12 1	95	S120 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 12:50
S12 2	37	S121 and focus	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:38
S12 3	11440	"dielectric multi-layer" or "dielectric multilayer" or (multi near3 dielectric) or (many near4 dielectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 12:53
S12 4	41	S123 same ("phase change" or (phasechange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:13
S12 5	364	S123 and("phase change" or (phasechange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:13
S12 6	300	S125 and @ad<"20040319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:13
S12 7	144	S126 and ((optical or laser or information) near5 ( media or medium or disc or disk))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:35
S12 8	5842147	(phase change) or (phasechange)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:41



## EAST Search History

S12 9	0	(dielectric) same (Sio2 and "ZnS-Sio2" and TiO2 and Ta2O5 and Si3N4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:43
S13 0	0	(dielectric) with (Sio2 and "ZnS-Sio2" and TiO2 and Ta2O5 and Si3N4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:43
S13 1	0	(refractive index) with (Sio2 and "ZnS-Sio2" and TiO2 and Ta2O5 and Si3N4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:43
S13 2	0	(refractive index) same (Sio2 and "ZnS-Sio2" and TiO2 and Ta2O5 and Si3N4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:44
S13 3	2853	(refractive index) with (Sio2 or "ZnS-Sio2" or TiO2 or Ta2O5 or Si3N4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:44
S13 4	354	S133 with (high and low)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:45
S13 5	38	S134 and ((optical or laser or information) near3 (disc or disk or media or medium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:51
S13 6	4	S135 and "phase change"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 13:49

## EAST Search History

S13 7	15	S135 and recording	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:08
S13 8	2	JP-03091128-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:09
S13 9	9119228	pierce type optical disk	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:10
S14 0	0	JP-0018929-\$.did	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:11
S14 1	0	JP-19830018929-\$.did	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:12
S14 2	0	JP-59146461-\$.did	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:13
S14 3	2	JP-59146461-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:58
S14 4	0	JP-0018929-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/19 14:14
S14 5	1	"6798733".pn.	USPAT	OR	ON	2006/12/19 15:07

## EAST Search History

S14 6	47610	(sputter\$4 same (Au or gold or ag or silver or cu or copper or pt or platinum or Ni or nickel or Fe or iron or cr or chromium or Co or cobalt or zn or zinc))	USPAT	OR	ON	2006/12/19 15:35
S14 7	9056	S146 same ("SiO.sub.2" or Sio2 or (silica dielectric))	USPAT	OR	ON	2006/12/19 15:35
S14 8	7697	absorb\$5 near3 (control or correction)	USPAT	OR	ON	2006/12/19 15:38
S14 9	42	S147 and S148	USPAT	OR	ON	2006/12/19 15:11
S15 0	8571	S148 or ("interference layer" or "multi refractive index thin film" or "multi refractive index film")	USPAT	OR	ON	2006/12/19 15:19
S15 1	140	S147 and S150	USPAT	OR	ON	2006/12/19 15:20
S15 2	130	S151 and @ad<"20040319"	USPAT	OR	ON	2006/12/19 15:26
S15 3	205628	("co.sub.3" adj "o.sub.4") or ("fe.sub.3" adj "o.sub.4") or ("fe.sub.2" adj "o.sub.3") or NiO or ("V.sub.2" adj "O.sub.5") or ZnO or ("Cr.sub.2" adj "O.sub.3") or (Mn adj "O.sub.2") or CdS or (Au-"siO.sub.2") or (Ag-"Sio.sub.2") or (Cu-"Sio.sub.2")	USPAT	OR	ON	2006/12/20 10:46
S15 4	2342	S153 same (sputter\$4 same (Au or gold or ag or silver or cu or copper or pt or platinum or Ni or nickel or Fe or iron or cr or chromium or Co or cobalt or zn or zinc))	USPAT	OR	ON	2006/12/19 15:32
S15 5	8881	S153 and (sputter\$4 same (Au or gold or ag or silver or cu or copper or pt or platinum or Ni or nickel or Fe or iron or cr or chromium or Co or cobalt or zn or zinc))	USPAT	OR	ON	2006/12/19 15:32
S15 6	2185	S155 and ((optical or laser or information) near4 (disc or disk or media or medium))	USPAT	OR	ON	2006/12/19 15:33
S15 7	575	S156 and "phase change"	USPAT	OR	ON	2006/12/19 15:33
S15 8	534	S157 and @ad<"20040319"	USPAT	OR	ON	2006/12/19 15:33
S15 9	305	S158 and S147	USPAT	OR	ON	2006/12/19 15:35
S16 0	1	S159 and S148	USPAT	OR	ON	2006/12/19 15:38

## EAST Search History

S16 1	1	S158 and S148	USPAT	OR	ON	2006/12/19 15:38
S16 2	7	S148 same "phase change"	USPAT	OR	ON	2006/12/19 15:39